

# COVID-19 Confirmed Cases by Industry Sector

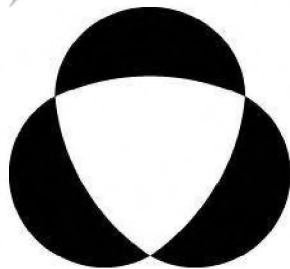
Washington State Department of Health and  
Washington State Department of Labor and  
Industries

December 17, 2020

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*Washington State Department of*  
***Health***



Washington State Department of  
**Labor & Industries**

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# COVID-19 Confirmed Cases by Industry Sector

## Washington State Department of Health

December 17, 2020

### NOTES:

- Data presented in this report **do not** reflect changes made to the COVID-19 Data Dashboard that was implemented on 12/16/2020. Only confirmed cases (individuals with a positive molecular COVID-19 test) are included in this report.
- The race and ethnicity information included in this report aligns with the [Guidelines for Using Racial and Ethnic Groupings in Data Analyses](#). We acknowledge that the Guidelines have not been revised for more than 10 years and there are other, more community-informed and culturally appropriate approaches to reporting race and ethnicity. Reforming race and ethnicity in a manner that respects community values and definitions is a priority for the Department and we are in the process of evaluating ways to improve reporting that more accurately reflects the racial identities of Washington Residents.

The following report was a collaboration between the Department of Health and Labor and Industries, Safety & Health Assessment & Research for Prevention Program, and contains data on the industry sector that lab-confirmed cases of COVID-19 are employed among Washington residents reported through 11:59pm on 2020-11-14. As of this date, there were 130,163 lab-confirmed cases, and 45,178 had employment information coded to standard industry codes. This was done using a free web-based coding tool called NIOCCS (NIOSH Industry and Occupation Computerized Coding System (<https://wwwn.cdc.gov/nioccs3/>)). If multiple jobs were listed for a case the first listed job was coded.

Occupation, industry and employer are captured during case interviews to determine possible exposure and transmission period. While some occupations place employees at a higher risk of being exposed to COVID-19, these data are not meant to imply that occupation was the exposure source for all of these cases.

### Availability of Employment Data among COVID-19 Cases by Age Group

Employment data were available for 43% of the WA cases between the ages of 18-64 years old. In 2019, an estimated 73% of the population between the ages of 18-64 were employed. The difference between 73% employment and 43% employment data availability among cases 18-64 years old, suggests that either employment information is missing or cases occur among those who are not employed. We do not have a way to determine the relative contribution of these factors.

AgeGroup	No Employment Data Count	No Employment Data Percent	Employment Data Count	Employment Data Percent
0-4	2,899	100%	0	0%
5-17	10,418	96%	479	4%
18-44	35,311	55%	29,045	45%
45-64	17,236	55%	14,144	45%
65-79	9,048	86%	1,454	14%
80+	4,931	99%	47	1%
Unknown	46	84%	9	16%
Total	79,889		45,178	

The remaining tables include the industry sector data among the 45,141 cases with employment data. 37 cases of COVID-19 reported among military personnel were excluded to align with estimates of employment by industry sector, available for the non-institutionalized civilian population.

The missing data on industry sector for 43% of cases is a major limitation of this analysis. There may be biases around which cases have complete employment data.

## Industry Sector among COVID-19 Cases with Employment Information

This table excludes 2,494 cases that had employment data that wasn't detailed enough to assign an industry. Out of the 130,163 lab-confirmed cases represented in this report, 33% had industry sector data available. This includes 40,853 or 41% of those cases 18-64 years old. Twenty-four percent of cases with employment data were employed in the health care and social assistance sector, which makes it the industry sector with the highest percentage of cases. This compares to 13% of the Washington employed population being employed in this sector. This sector, along with agriculture, forestry, fishing and hunting, were the two sectors which were overrepresented among cases compared to the Washington employed population. Information on industry classification can be found at <https://www.census.gov/eos/www/naics/>.

Industry Sector	Count	Percent	Percent WA employed population
Health Care and Social Assistance	10,161	24%	13%
Retail Trade	4,264	10%	12%
Manufacturing	3,838	9%	9%
Agriculture, Forestry, Fishing and Hunting	3,651	9%	3%
Construction	3,237	8%	6%
Accommodation and Food Services	3,210	8%	9%
Public Administration	2,118	5%	4%



Industry Sector	Count	Percent	Percent WA employed population
Transportation and Warehousing	1,921	5%	4%
Administrative and Support and Waste Management and Remediation Services	1,777	4%	5%
Educational Services	1,614	4%	9%
Other Services (except Public Administration)	1,290	3%	3%
Professional, Scientific, and Technical Services	1,277	3%	6%
Wholesale Trade	1,271	3%	4%
Finance and Insurance	887	2%	3%
Real Estate and Rental and Leasing	670	2%	2%
Information	551	1%	4%
Arts, Entertainment, and Recreation	524	1%	2%
Utilities	178	<1%	1%
NIOSH-Specific Retired, Unpaid	156	<1%	
Management of Companies and Enterprises	37	<1%	2%
Mining, Quarrying, and Oil and Gas Extraction	15	<1%	<1%
Total	42,647		

## Industry Sector by Race/Ethnicity

This table excludes 2,494 cases that had employment data that wasn't detailed enough to assign an industry. Race and ethnicity information was missing for 7% of cases with employment data available; these cases are displayed in the 'unknown race' column. The table below shows the percent of cases by industry sector and race and ethnicity, compared to percent that were employed in these sectors in 2019.

Out of the nine most commonly listed industries, the highest percent of cases were in the health care and social assistance sector for all race groups, and was higher than the employed population working in this sector. For Hispanics, cases were highest among the agriculture, forestry, fishing and hunting sector. For Non-Hispanic Native Hawaiian or Other Pacific Islanders, in addition to the health care and social assistance sector, cases were also high in the manufacturing sector.

Race / Ethnicity	Hispanic		Non-Hispanic White		Non-Hispanic Asian		Non-Hispanic Black	
Industry Sector	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Health Care and Social Assistance	15%	12%	26%	13%	31%	14%	44%	21%
Manufacturing	10%	9%	7%	9%	13%	11%	6%	7%
Retail Trade	9%	11%	11%	11%	11%	13%	9%	10%
Agriculture, Forestry, Fishing and Hunting	20%	12%	1%	2%	1%	2%	<1%	3%
Accommodation and Food Services	10%	12%	6%	8%	8%	10%	4%	10%
Construction	10%	7%	8%	7%	2%	2%	2%	4%
Transportation and Warehousing	3%	3%	4%	4%	7%	3%	11%	7%
Public Administration	2%	3%	7%	5%	3%	2%	6%	4%
Administrative and Support and Waste Management and Remediation Services	6%	6%	3%	5%	2%	5%	6%	10%
All Other	14%	24%	27%	38%	22%	39%	13%	26%
Total	15,712		16,430		2,222		2,464	

### Industry Sector by Race/Ethnicity Continued

Race / Ethnicity	Non-Hispanic Native Hawaiian or Other Pacific Islander		Non-Hispanic American Indian or Alaska Native		Non-Hispanic Other Race		Unknown Race	
Industry Sector	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Health Care and Social Assistance	23%	13%	23%	11%	26%	13%	37%	NA
Manufacturing	19%	11%	7%	6%	9%	7%	9%	NA
Retail Trade	12%	12%	8%	10%	13%	14%	9%	NA
Agriculture, Forestry, Fishing and Hunting	1%	2%	4%	3%	6%	1%	3%	NA
Accommodation and Food Services	5%	9%	10%	8%	8%	12%	5%	NA
Construction	3%	5%	3%	7%	6%	5%	6%	NA
Transportation and Warehousing	12%	10%	4%	3%	7%	4%	4%	NA

Race / Ethnicity	Non-Hispanic Native Hawaiian or Other Pacific Islander		Non-Hispanic American Indian or Alaska Native		Non-Hispanic Other Race		Unknown Race	
Industry Sector	Cases	Pop	Cases	Pop	Cases	Pop	Cases	Pop
Public Administration	4%	3%	20%	19%	5%	5%	6%	NA
Administrative and Support and Waste Management and Remediation Services	4%	9%	4%	5%	3%	6%	3%	NA
All Other	16%	25%	18%	28%	18%	34%	17%	NA
Total	781		385		1,757		2,896	